

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An ethylene polymer prepared in the presence of an olefin polymerization catalyst comprising an organic hafnium compound having at least one substituted cyclopentadienyl group and an organic boron compound, said ethylene polymer having:
 - (A) a density of from 0.930 to 0.970 g/cm³,
 - (B) a ratio (Mw/Mn) of a weight average molecular weight (Mw) to a number average molecular weight (Mn), as measured by GPC, of from 1.2 to 10, and
 - (C) a ratio (MFR₁₀/MFR₂) of a melt flow rate (MFR₁₀) at 190°C under a load of 10 Kg to a melt flow rate (MFR₂) at 190°C under a load of 2.16 Kg of from 16.2 to 50.

2. (Currently Amended) An ethylene polymer prepared in the presence of an olefin polymerization catalyst comprising an organic hafnium compound having at least one substituted cyclopentadienyl group and an organic boron compound, said ethylene polymer having:
 - (A) a density of 0.921 g/cm³ or more but less than 0.930 g/cm³,
 - (B) a ratio (Mw/Mn) of a weight average molecular weight (Mw) to a number average molecular weight (Mn), as measured by GPC, of from 1.2 to 4.0, and

(C) a ratio (MFR_{10}/MFR_2) of a melt flow rate (MFR_{10}) at 190°C under a load of 10 Kg to a melt flow rate (MFR_2) at 190°C under a load of 2.16 Kg of from 12 to 50.

3. (Currently Amended) An ethylene polymer prepared in the presence of an olefin polymerization catalyst comprising an organic hafnium compound having at least one substituted cyclopentadienyl group and an organic boron compound, said ethylene polymer having:

- (A) a density of from 0.850 to 0.970 g/cm³,
- (B) a ratio (M_w/M_n) of a weight average molecular weight (M_w) to a number average molecular weight (M_n), as measured by GPC, of from 1.2 to 10, and
- (D) a relation of $\omega_2 / \omega_1 \geq 18$ where ω_1 and ω_2 denote angular velocity (rad/sec) when complex elastic modulus G^* (dyne/cm²) at 200°C is 5.0×10^5 dyne/cm² and 2.0×10^6 dyne/cm², respectively, which are determined by measurement of the angular velocity dependence of the complex elastic modulus of the copolymer.

4. (Withdrawn) A process for preparing an ethylene polymer, which process comprises preparing said ethylene polymer in the presence of an olefin polymerization catalyst comprising an organic hafnium compound having at least one substituted cyclopentadienyl group and an organic boron compound essentially, wherein the ethylene polymer has:

- (A) a density of from 0.850 to 0.970 g/cm³,
- (B) a ratio (M_w/M_n) of a weight average molecular weight (M_w) to a number average molecular weight (M_n), as measured by GPC, of from 1.2 to 10, and

(C) a ratio (MFR_{10}/MFR_2) of a melt flow rate (MFR_{10}) at 190°C under a load of 10 Kg to a melt flow rate (MFR_2) at 190°C under a load of 2.16 Kg of from 12 to 50.

5. (Currently Amended and withdrawn) A process for preparing an ethylene polymer, which process comprises preparing said ethylene polymer in the presence of an olefin ~~polymerization~~ polymerization catalyst comprising an organic hafnium compound having at least one substituted cyclopentadienyl group and an organic boron compound essentially, wherein the ethylene polymer has:

(A) a density of from 0.850 to 0.970 g/cm³,

(B) a ratio (M_w/M_n) of a weight average molecular weight (M_w) to a number average molecular weight (M_n), as measured by GPC, of from 1.2 to 10, and

(D) a relation of $\omega_2 / \omega_1 \geq 13$ where ω_1 and ω_2 denote angular velocity (rad/sec) when complex elastic modulus G^* (dyne/cm²) at 200°C is 5.0×10^5 dyne/cm² and 2.0×10^6 dyne/cm², respectively, which are determined by measurement of the angular velocity dependence of the complex elastic modulus of the copolymer.

6. (Cancelled)

7. (Previously Presented) A molded article selected from the group consisting of (a) injection molded articles, (b) hollow or extrusion molded articles, (c) rotational molded articles, (d) film or sheet molded articles and (e) extrusion coated molded articles, which article comprises, as an essential component, the ethylene polymer as claimed in claim 1.

8. (Previously Presented) A molded article selected from the group consisting of (a) injection molded articles, (b) hollow or extrusion molded articles, (c) rotational molded articles, (d) film or sheet molded articles and (e) extrusion coated molded articles, which article comprises, as an essential component, the ethylene polymer as claimed in claim 2.

9. (Previously Presented) A molded article selected from the group consisting of (a) injection molded articles, (b) hollow or extrusion molded articles, (c) rotational molded articles, (d) film or sheet molded articles and (e) extrusion coated molded articles, which article comprises, as an essential component, the ethylene polymer as claimed in claim 3.

10. (Withdrawn) A molded article selected from the group consisting of (a) injection molded articles, (b) hollow or extrusion molded articles, (c) rotational molded articles, (d) film or sheet molded articles and (e) extrusion coated molded articles, which article comprises, as an essential component, the ethylene polymer as claimed in claim 4.

11. (Withdrawn) A molded article selected from the group consisting of (a) injection molded articles, (b) hollow or extrusion molded articles, (c) rotational molded articles, (d) film or sheet molded articles and (e) extrusion coated molded articles, which article comprises, as an essential component, the ethylene polymer as claimed in claim 5.